

Applied Physics B

Photo- physics and Laser Chemistry

**Volume B 51
1990**

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PHYSICS AND ASTRONOMY CLASSIFICATION SCHEME (PACS)

Shortened version for use in classifying papers for Applied Physics

General

- 02 Mathematical methods in physics
- 06 Measurement science and metrology
- 07 Specific instrumentation
 - 07.60 Optical instruments and techniques, detection of radiation
 - 07.65 Optical spectroscopy and spectrometers
 - 07.75 Mass spectrometers and mass-spectroscopy techniques
 - 07.80 Electron and ion microscopes and spectrometers; techniques
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- 33 Molecular spectra and interactions of molecules with photons
- 34 Atomic and molecular collision processes and interactions
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- 36 Studies of special atoms and molecules (macro- and polymer molecules, clusters)

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 - 42.55 Laser processes
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 - G Excimer lasers
 - H Atomic, ionic, and other gas lasers
 - M Laser action in liquids and organic dyes
 - P Laser action in semiconductors
 - R Laser action in solid-state lasers
 - T Free-electron lasers
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 - D Laser resonators, cavities, and amplifiers
 - E Laser beam deflection and focusing
 - F Laser beam modulation, mode locking, and tuning
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 - 42.68 Atmospheric optics
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 - 42.80 Optical devices, techniques, and applications (including fiber and integrated optics)
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Photophysics and Laser Chemistry

- Acker W.P., Serpengüzel A., Chang R.K., Hill S.C.:
Stimulated Raman scattering of fuel droplets: Chemical concentration and size determination.
Appl. Phys. B 51/1, 9-16 (1990) PACS:42.65 42.68
- Akitt D., Seguin H.J.J., Cervenak M.R., Nikumb S.K.:
Automatic alignment of a high-power CO₂ laser resonator.
Appl. Phys. B 51/5, 326-328 (1990) PACS:42.55D 42.60
- Al Dhahir R.K., Dyer P.E., Zhu Z.:
Photoacoustic studies and selective ablation of vascular tissue using a pulsed dye laser.
Appl. Phys. B 51/1, 81-85 (1990) PACS:87.00 42.55 43.35 61.80
- Ames F., Brumm T., Jäger K., Kluge H.-J., Suri B.M., Rimke H., Trautmann N., Kirchner R.:
A high-temperature laser ion source for trace analysis and other applications.
Appl. Phys. B 51/3, 200-206 (1990) PACS:07.77 07.80 32.80 14.60
- Arnold A., Ketterle W., Becker H., Wolfrum J.:
Simultaneous single-shot imaging of OH and O₂ using a two-wavelength excimer laser.
Appl. Phys. B 51/2, 99-102 (1990) PACS:82.40P 82.80 07.60
- Attal-Trétout B., Bouchardy P., Magre P., Péalat M., Taran J.P.:
CARS in combustion: Prospects and problems.
Appl. Phys. B 51/1, 17-24 (1990) PACS:42.65D
- Azinović D., Pichler G.:
Ultraviolet and blue NaHg and NaCd excimer bands.
Appl. Phys. B 51/6, 427-430 (1990) PACS:33.80K 42.55 42.60 52.80
- Bezrodny A.E., Semibalamut V.M., Titov E.A.:
Effect of wavefront curvature within the cavity on the shift of the saturated-absorption resonance.
Appl. Phys. B 51/3, 197-199 (1990) PACS:07.00 42.60
- Bhar G.C., Chatterjee U., Datta P.:
Enhancement of second harmonic generation by double-pass configuration in barium borate.
Appl. Phys. B 51/5, 317-319 (1990) PACS:42.60H 42.65
- Bombach R., Gerber T., Hemmerling B., Hubschmid W.:
Aspects of hydrogen CARS thermometry.
Appl. Phys. B 51/1, 59-60 (1990) PACS:33.20F 42.65
- Bornemann T., Kornas V., Schulz v.d.Gathen V., Döbele H.F.:
Temperature and concentration measurements of molecular hydrogen in a filamentary discharge by coherent anti-Stokes Raman spectroscopy (CARS).
Appl. Phys. B 51/5, 307-313 (1990) PACS:52.70 42.65
- Cartaleva St.St., Gateva S.V.:
611.8 nm single-mode He-Ne laser.
Appl. Phys. B 51/4, 292-294 (1990) PACS:42.55 42.60
- Chebotayev V.P.:
Amplification of the pulse responses in ensemble of nonlinear oscillators.
Appl. Phys. B 51/4, 303-306 (1990) PACS:42.65
- CHEN J.-T., YU Z.-X.:
Investigation of aggregation of porphyrin derivative Fe(TPP)Cl at low temperature by time-resolved fluorescence spectrum.
Appl. Phys. B 51/3, 222-226 (1990) PACS:36.00
- Choroba S., Böttcher W.:
Interferometric measurement of two-dimensional Xe* and electron density distributions in XeCl laser discharges.
Appl. Phys. B 51/6, 379-385 (1990) PACS:42.55 07.60 52.70
- Costa A.F. da, Tsui K.H., Huang Y.K., Massone C.A.:
Partial pressure scaling law of CO₂ laser efficiency.
Appl. Phys. B 51/3, 227-232 (1990) PACS:42.60
- Cottreau M.J., Grisch F., Marie J.J.:
CARS measurements of temperature and species concentrations into an IC engine.
Appl. Phys. B 51/1, 63-66 (1990) PACS:33.00 35.00
- Dagata J.A., Villa E., Lin M.C.:
UV desorption and photochemistry of dimethylgold hexafluoroacetylacetonate adsorbed on a quartz substrate.
Appl. Phys. B 51/6, 443-450 (1990) PACS:82.50 82.65
- Danailov M.B., Christov I.P.:
Ultrabroadband laser using prism-based "spatially-dispersive" resonator.
Appl. Phys. B 51/4, 300-302 (1990) PACS:42.55M
- Deac I., Cosma V., Silipis D., Muresan L., Tosa V.:
Parametric study of the IRMPD of CF₃HCl molecules with the 9P22 CO₂ laser line.
Appl. Phys. B 51/3, 211-214 (1990) PACS:33.00
- Derzhiev V., Karelin A., Sereda O., Stefanova M., Yakovlenko S.:
Numerical modeling of He-Zn laser with helical hollow cathode.
Appl. Phys. B 51/6, 465-468 (1990) PACS:42.55H 52.25 52.80
- Dibble R.W., Starner S.H., Masri A.R., Barlow R.S.:
An improved method of data acquisition and reduction of laser Raman-Rayleigh and fluorescence scattering from multispecies.
Appl. Phys. B 51/1, 39-43 (1990) PACS:33.35
- Dienstbier M., Benes R., Rejfir P., Sladky P.:
Study of the UV laser ablation by optothermal methods.
Appl. Phys. B 51/2, 137-140 (1990) PACS:06.00 81.40 82.50
- Dinev S.G., Hadjichristov G.B.:
Polarization decoupling of stimulated processes sharing a common emission channel.
Appl. Phys. B 51/4, 263-266 (1990) PACS:42.65
- Dyer P.E., Oldershaw G.A., Schudel D.:
XeCl laser ablation of polyetheretherketone.
Appl. Phys. B 51/5, 314-316 (1990) PACS:82.50 42.60
- Fickenscher M., Purucker H.-G., Lauberau A.:
Efficient amplification of sub-picosecond pulses of non-CW dye laser.
Appl. Phys. B 51/3, 207-210 (1990) PACS:42.55M 42.60
- Francesconi M., Gianfrani L., Inguscio M., Minutolo P., Sasso A., Tino G.M.:
A new approach to impedance atomic spectroscopy.
Appl. Phys. B 51/1, 87-90 (1990) PACS:32.90 35.80
- Goncharov A.N., Skvortsov M.N., Chebotayev V.P.:
Study of relaxation of molecular iodine by the method of saturated absorption spectroscopy.
Appl. Phys. B 51/2, 108-115 (1990) PACS:07.60 07.65 42.60
- Hayden C.C., Trebino R.:
Coherent interactions in two-beam excite-probe absorption measurements: Phase gratings in flowing samples.
Appl. Phys. B 51/5, 350-357 (1990) PACS:42.65J 42.60 32.80
- Henningens J., Hammerich M., Olafsson A.:
Mode structure of hollow dielectric waveguide lasers.
Appl. Phys. B 51/4, 272-284 (1990) PACS:42.55D 42.60 42.80
- Hooker S.M., Webb C.E.:
The absorption of 158 nm radiation in nitric oxide: The prospects for an optically pumped vacuum UV laser.
Appl. Phys. B 51/2, 127-131 (1990) PACS:42.55H
- Hung N.D., Brechignac P., Coutant B.:
A quasi double-grating grazing incidence pulsed dye laser.
Appl. Phys. B 51/1, 75-79 (1990) PACS:42.60
- Ilyukhin A.A., Pykhov R.L., Smirnov V.V., Marowsky G.:
Rotational temperature behaviour in supersonic jet expansions of molecular nitrogen.
Appl. Phys. B 51/3, 192-196 (1990) PACS:42.65
- Joseph J., Singh K., Pillai P.K.C.:
A new phase-conjugate one-way scheme for phase-distortion correction.
Appl. Phys. B 51/3, 219-221 (1990) PACS:42.80 42.65 42.40
- Josten G., Lüthy W., Weber H.P.:
Active phase stabilization in a two-fiber interferometer.
Appl. Phys. B 51/6, 418-420 (1990) PACS:42.80M 42.80 85.50
- Kanaan Y., Attenberger T., Bogner U., Maier M.:
Electric field effects on persistent spectral holes: perylene in the polar polymer polyvinylbutyral.
Appl. Phys. B 51/5, 336-341 (1990) PACS:78.50 61.40
- Ketterle W., Arnold A., Schäfer M.:
Two-wavelength operation of a tunable KrF excimer laser: a promising technique for combustion diagnostics.
Appl. Phys. B 51/2, 91-93 (1990) PACS:42.55G 42.60
- Konefal Z., Ignaciuk M.:
Stimulated collision induced processes in sodium vapor in the presence of helium.
Appl. Phys. B 51/4, 285-291 (1990) PACS:32.80W 32.90
- Kröll S., Bengtsson P.-E., Aldén M., Nilsson D.:
Is rotational CARS an alternative to vibrational CARS for thermometry?
Appl. Phys. B 51/1, 25-30 (1990) PACS:42.65D 82.40

- Kühnle G., Teubner U., Szatmári S.:
Amplified spontaneous emission in short-pulse excimer amplifiers.
Appl. Phys. B 51/1, 71-74 (1990) PACS:42.60 42.55
- Lange B., Wolfrum J.:
The impact of laser field statistics in determination of temperature and concentration by multiplex USED CARS.
Appl. Phys. B 51/1, 53-58 (1990) PACS:42.65D
- Laptev V.B., Tunamova L.M., Kuz'menko V.A., Ryabov E.A.:
¹⁸O-selective IR MPD of perfluorodimethyl ether.
Appl. Phys. B 51/6, 454-457 (1990) PACS:82.50 33.00 35.00
- Lu X.J., Yu F.T.S., Gregory D.A.:
Comparison of Vander Lugt and joint transform correlators.
Appl. Phys. B 51/2, 153-164 (1990) PACS:42.30 42.80
- MA L.S., DING L.E., BI Z.Y.:
Doppler-free two-photon modulation transfer spectroscopy in sodium dimers.
Appl. Phys. B 51/3, 233-237 (1990) PACS:07.56B 33.80 42.50
- MA P., SUGITA K., ARAI S.:
¹³C-selective IRMPD of CBr₄F₂/Cl₂ and CCl₂F₂/Br₂ systems.
Appl. Phys. B 51/2, 103-107 (1990) PACS:82.50 33.00
- Marowsky G., Lüpke G.:
CARS-background suppression by phase-controlled nonlinear interferometry.
Appl. Phys. B 51/1, 49-51 (1990) PACS:42.65
- Meienburg W., Neckel H., Wolfrum J.:
In situ measurement of ammonia with a ¹³CO₂-waveguide laser system.
Appl. Phys. B 51/2, 94-98 (1990) PACS:42.60B
- Meier B., Weidner P., Penzkofer A.:
Double line stimulated Raman scattering in benzene.
Appl. Phys. B 51/6, 404-413 (1990) PACS:42.65C 42.65
- Meijer G., Vries M.S. de, Hunziker H.E., Wendt H.R.:
Laser desorption jet-cooling of organic molecules: Cooling characteristics and detection sensitivity.
Appl. Phys. B 51/6, 395-403 (1990) PACS:35.80 82.80 47.45
- Michailov N.I., Christov I.P., Tomov I.V.:
Two-wavelength operation of a femtosecond ring dye laser.
Appl. Phys. B 51/2, 171-176 (1990) PACS:42.60
- Miles R., Lempert W.:
Two-dimensional measurement of density, velocity, and temperature in turbulent high-speed air flows by UV Rayleigh scattering.
Appl. Phys. B 51/1, 1-7 (1990) PACS:47.80V
- Musielok J., Janus H.W., Jeleński W.:
Spectroscopic studies of a helium plasma generated near ceramic surface at pressures below 1000 hPa.
Appl. Phys. B 51/2, 165-170 (1990) PACS:52.70 52.80
- Nahme H., Schwentner N.:
Luminescence of rare gas crystals at high excitation densities for VUV laser applications.
Appl. Phys. B 51/3, 177-191 (1990) PACS:42.55F 42.55 78.45
- Nassisi V., Perrone M.R.:
Double XeCl laser with lateral UV preionization.
Appl. Phys. B 51/4, 254-257 (1990) PACS:42.55 42.60
- Neubecker R., Balzer W., Tschudi T.:
Characterization of nematic liquid crystals for nonlinear optical applications.
Appl. Phys. B 51/4, 258-262 (1990) PACS:42.65 42.80 42.30
- Ogawa T., Ema K.:
A continuous-mode model of the mode locking in a pump-modulated laser.
Appl. Phys. B 51/6, 431-436 (1990) PACS:42.60F 42.60
- O'Neill C., Coulombe B., Galarneau P., Denariez-Roberge M.-M.:
Real-time diffraction gratings in DDI-methanol solutions.
Appl. Phys. B 51/2, 116-120 (1990) PACS:42.65K 78.20
- Pastor I., Guerra J.M.:
Fast local intensity fluctuations in a pulsed untuned dye laser.
Appl. Phys. B 51/5, 342-349 (1990) PACS:42.55M 42.50
- Porter F.M., Greenhalgh D.A., Stopford P.J., Williams D.R., Baker C.A.:
A study of CARS nitrogen thermometry at high pressure.
Appl. Phys. B 51/1, 31-38 (1990) PACS:42.65 78.30
- Roussignol Ph., Ricard D., Flytzanis Chr.:
Quantum confinement mediated enhancement of optical Kerr effect in CdSe_{1-x} semiconductor microcrystallites.
Appl. Phys. B 51/6, 437-442 (1990) PACS:42.65 81.40 78.65
- Rowley W.R.C., Gill P.:
Performance of internal-mirror frequency-stabilized He-Ne lasers emitting green, yellow or orange light.
Appl. Phys. B 51/6, 421-426 (1990) PACS:42.50 42.55 42.60
- Rupp R.A., Sommerfeldt R., Ringhofer K.H., Krätzig E.:
Space charge field limitations in photorefractive LiNbO₃:Fe crystals.
Appl. Phys. B 51/5, 364-370 (1990) PACS:42.40 72.40 42.70
- Saxena R., McMichael I., Yeh P.:
Dynamics of refractive-index changes and two-beam coupling in resonant media.
Appl. Phys. B 51/4, 243-253 (1990) PACS:42.50 42.65
- Schmidt V., Suesse K.-E., Weidner F.:
The influence of spontaneous emission on the pulse generation in DFDL near threshold.
Appl. Phys. B 51/5, 320-325 (1990) PACS:42.55M
- Schubert M., Siemers I., Blatt R.:
Kinetic energy and spatial width of ion clouds in Paul traps.
Appl. Phys. B 51/6, 414-417 (1990) PACS:32.70J 32.80
- Scully M.O.:
A simple laser linac.
Appl. Phys. B 51/3, 238-241 (1990) PACS:42.60 42.80 85.60
- Shirley J.A.:
UV Raman spectroscopy of H₂-air flames excited with a narrowband KrF laser.
Appl. Phys. B 51/1, 45-48 (1990) PACS:33.20F
- Sinha S., Gupta P.K.:
Temporal synchronization of independently tunable single longitudinal mode hybrid CO₂ lasers.
Appl. Phys. B 51/4, 295-299 (1990) PACS:42.60B 42.55
- Skordoulis C., Spyrou S., Cefalas A.C.:
Gain and saturation measurements in a discharge excited F₂ laser using an oscillator amplifier configuration.
Appl. Phys. B 51/2, 141-145 (1990) PACS:42.60D 42.55
- Suesse K.-E., Weidner F.:
Properties of a distributed feedback dye laser with integrated amplifier.
Appl. Phys. B 51/4, 267-271 (1990) PACS:42.55M
- Sugiyama K., Yoda J.:
Anharmonic oscillation of ions trapped in an RF trap with light buffer gas.
Appl. Phys. B 51/2, 146-152 (1990) PACS:41.70 52.55 35.80
- Suzuki T., Kasuya T.:
Optogalvanic detection of negative ions in discharges.
Appl. Phys. B 51/5, 374-378 (1990) PACS:32.80F 51.50 52.70
- TSAI J.-h., LU M.-h.:
A rich spectrum from potassium vapor on the 4²S_{1/2}-3²D_{5/2} two-photon resonance.
Appl. Phys. B 51/6, 386-394 (1990) PACS:42.60 42.65
- Wenzel N., Lange B., Marowsky G.:
High-temperature N₂-CARS-thermometry.
Appl. Phys. B 51/1, 61-62 (1990) PACS:42.65
- White J.D., Chakrabarti A., Reid J.:
High power, high efficiency optically pumped NH₃ lasers.
Appl. Phys. B 51/5, 371-373 (1990) PACS:33.80B 42.55 42.60
- Wichmann B., Liedenbaum C., Reuss J.:
A numerical investigation of occurrence conditions and line broadening effects for a rapid adiabatic passage process.
Appl. Phys. B 51/5, 358-363 (1990) PACS:33.00 42.60
- Wrobel R., Niay P., Bernage P., Blondeau J.M., Ledee J.J., Brunetaud J.M.:
Identification of cholesterol gallstones by using in vitro low-fluence laser-induced fluorescence spectroscopic analysis.
Appl. Phys. B 51/6, 458-464 (1990) PACS:33.50
- XIE C., GAO J., LIAN Y., YANG X., PENG K.:
Increasing absorption optical bistability operating in front surface layer of high absorption samples.
Appl. Phys. B 51/3, 215-218 (1990) PACS:42.65J 42.70
- Yamaga M., Henderson B., O'Donnell K.P., Yue G.:
Temperature dependence of the lifetime of Cr³⁺ luminescence in garnet crystals. II. The case of YGG.
Appl. Phys. B 51/2, 132-136 (1990) PACS:42.70 79.60
- Yamaga M., Gao Y., Rasheed F., O'Donnell K.P., Henderson B., Cockayne B.:
Radiative and non-radiative decays from the excited state of Ti³⁺ ions in oxide crystals.
Appl. Phys. B 51/5, 329-335 (1990) PACS:42.70 79.60
- Yang T.T., Bower R.D., Blauer J.A.:
Chemically produced XeF(B→X) emission.
Appl. Phys. B 51/6, 451-453 (1990) PACS:33.50D
- ZHANG J.-Y., King T.A.:
Competitive processes in Ti anti-Stokes Raman laser system.
Appl. Phys. B 51/2, 121-126 (1990) PACS:42.55H 42.60 42.65
- Zizak G., Cignoli F., Benecchi S.:
A complete treatment of a steady-state four-level model for the interpretation of OH laser-induced fluorescence measurements in atmospheric pressure flames.
Appl. Phys. B 51/1, 67-70 (1990) PACS:07.65 33.00

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Akitt D.	Akitt D.	B 51/5, 326-328 (1990)	42.55D	Cignoli F.	Zizak G.	B 51/1, 67-70 (1990)	07.65
Aktas G.	Esme I.	A 51/6, 481-485 (1990)	72.20	Cil C.Z.	Esme I.	A 51/6, 481-485 (1990)	72.20
Al-Refaie S.N.	Al-Refaie S.N.	A 51/5, 419-422 (1990)	73.40R	Cingolani A.	Scamarcio G.	A 51/3, 252-254 (1990)	68.65
Alaoui Z.K.	Bernede J.C.	A 51/2, 155-159 (1990)	68.55	Ciriè I.	Mitrovic M.M.	A 51/5, 374-378 (1990)	61.10
Aldén M.	Kröll S.	B 51/1, 25-30 (1990)	42.65D	Cockayne B.	Yamaga M.	B 51/5, 329-335 (1990)	42.70
Al Dhahir R.K.	Al Dhahir R.K.	B 51/1, 81-85 (1990)	87.00	Conrad H.	Tüshaus M.	A 51/2, 91-98 (1990)	68.35R
Amaral L.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80	Corts T.	Corts T.	A 51/6, 537-545 (1990)	61.80
Amelinckx S.	Verwerf M.	A 51/4, 332-336 (1990)	61.14F	Cosma V.	Deac I.	B 51/3, 211-214 (1990)	33.00
Ames F.	Ames F.	B 51/3, 200-206 (1990)	07.77	Costa A.F. da	Costa A.F. da	B 51/3, 227-232 (1990)	42.60
Angadi M.A.	Angadi M.A.	A 51/5, 446-450 (1990)	78.65	Cottureau M.J.	Cottureau M.J.	B 51/1, 63-66 (1990)	33.00
ARAI S.	MA P.	B 51/2, 103-107 (1990)	82.50	Coulombe B.	O'Neill C.	B 51/2, 116-120 (1990)	42.65K
Arnold A.	Arnold A.	B 51/2, 99-102 (1990)	82.40P	Coutant B.	Hung N.D.	B 51/1, 75-79 (1990)	42.60
Arnold A.	Ketterle W.	B 51/2, 91-93 (1990)	42.55G				
Artamonov V.V.	Artamonov V.V.	A 51/3, 264-267 (1990)	78.30G	D'Amico K.L.	Lee C.H.	A 51/3, 191-193 (1990)	68.35R
Artamonov V.V.	Artamonov V.V.	A 51/5, 434-436 (1990)	78.30G	Dagata J.A.	Dagata J.A.	B 51/6, 443-450 (1990)	82.50
Atrens A.	Lim A.S.	A 51/5, 411-418 (1990)	68.45	Danailov M.B.	Danailov M.B.	B 51/4, 300-302 (1990)	42.55M
Attal-Trétout B.	Attal-Trétout B.	B 51/1, 17-24 (1990)	42.65D	Datta P.	Bhar G.C.	B 51/5, 317-319 (1990)	42.60H
Attenberger T.	Kanaan Y.	B 51/5, 336-341 (1990)	78.50N	Deac I.	Deac I.	B 51/3, 211-214 (1990)	33.00
Azinović D.	Azinović D.	B 51/6, 427-430 (1990)	33.80K	Debowska E.	Baranowski A.	A 51/1, 23-27 (1990)	78.70B
				Denariez-Roberge M.O'Neill C.	O'Neill C.	B 51/2, 116-120 (1990)	42.65K
Baker C.A.	Porter F.M.	B 51/1, 31-38 (1990)	42.65	Derzhiev V.	Derzhiev V.	B 51/6, 465-468 (1990)	42.55H
Balynas V.	Balynas V.	A 51/4, 357-360 (1990)	72.20	Desnica D.I.	Desnica U.V.	A 51/5, 379-381 (1990)	71.55E
Balzer W.	Neubecker R.	B 51/4, 258-262 (1990)	42.65	Desnica U.V.	Desnica U.V.	A 51/5, 379-381 (1990)	71.55E
Baranowski A.	Baranowski A.	A 51/1, 23-27 (1990)	78.70B	Dymant F.	Dymant F.	A 51/1, 29-33 (1990)	66.10C
Barlow R.S.	Dibble R.W.	B 51/1, 39-43 (1990)	33.35	Dibble R.W.	Dibble R.W.	B 51/1, 39-43 (1990)	33.35
Bauer E.	Bauer E.	A 51/2, 71-78 (1990)	68.35M	Dickens P.G.	Powell A.V.	A 51/3, 226-230 (1990)	61.12
Bauer E.	Pavlovska A.	A 51/3, 171-182 (1990)	68.35B	Dienstbier M.	Dienstbier M.	B 51/2, 137-140 (1990)	06.00
Bäuerle D.	Kirichenko N.	A 51/6, 498-507 (1990)	42.50	Dinev S.G.	Dinev S.G.	B 51/4, 263-266 (1990)	42.65
Beauvais J.	Beauvais J.	A 51/6, 515-519 (1990)	42.30	DING L.E.	MA L.S.	B 51/3, 233-237 (1990)	07.56B
Becker H.	Arnold A.	B 51/2, 99-102 (1990)	82.40P	Ding X.L.	Voigt J.	A 51/4, 317-321 (1990)	75.70
Behar M.	Dymant F.	A 51/1, 29-33 (1990)	66.10C	Döbele H.F.	Bornemann T.	B 51/5, 307-313 (1990)	52.70
Behar M.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80	Doyen G.	Doyen G.	A 51/4, 281-288 (1990)	68.35
Benecchi S.	Zizak G.	B 51/1, 67-70 (1990)	07.65	Dyer P.E.	Dyer P.E.	B 51/5, 314-316 (1990)	82.50
Benes R.	Dienstbier M.	B 51/2, 137-140 (1990)	06.00	Dyer P.E.	Al Dhahir R.K.	B 51/1, 81-85 (1990)	87.00
Bengtsson P.-E.	Kröll S.	B 51/1, 25-30 (1990)	42.65D	Dymant F.	Dymant F.	A 51/1, 29-33 (1990)	66.10C
Bernage P.	Wrobel R.	B 51/6, 458-464 (1990)	33.50				
Bernardini J.	Menai A.	A 51/2, 141-145 (1990)	78.70B	Eiswirth R.M.	Eiswirth R.M.	A 51/2, 79-90 (1990)	68.10I
Berndt W.	Tüshaus M.	A 51/2, 91-98 (1990)	68.35R	Eitile J.	Ugolini D.	A 51/6, 526-536 (1990)	73.60H
Bernede J.C.	Bernede J.C.	A 51/2, 155-159 (1990)	68.55	Elkhakani M.A.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80
Bezrodny A.E.	Bezrodny A.E.	B 51/3, 197-199 (1990)	07.00	Elmers H.J.	Elmers H.J.	A 51/3, 255-263 (1990)	75.30E
Bhar G.C.	Bhar G.C.	B 51/5, 317-319 (1990)	42.60H	Ema K.	Ogawa T.	B 51/6, 431-436 (1990)	42.60F
BI Z.Y.	MA L.S.	B 51/3, 233-237 (1990)	07.56B	Ertl G.	Eiswirth R.M.	A 51/2, 79-90 (1990)	68.10I
Black J.E.	Black J.E.	A 51/2, 121-125 (1990)	68.35R	Esme I.	Esme I.	A 51/6, 481-485 (1990)	72.20
Blatt R.	Schubert M.	B 51/6, 414-417 (1990)	32.70J	Eswein A.	Eswein A.	A 51/5, 382-386 (1990)	61.40D
Blauer J.A.	Yang T.T.	B 51/6, 451-453 (1990)	33.50D	Evans A.G.R.	Murray D.C.	A 51/4, 337-339 (1990)	73.40Q
Blondeau J.M.	Wrobel R.	B 51/6, 458-464 (1990)	33.50				
Bochnia R.	Künzel H.	A 51/6, 508-514 (1990)	68.55	Fauster Th.	Schuppler S.	A 51/4, 322-326 (1990)	73.20A
Bogner U.	Kanaan Y.	B 51/5, 336-341 (1990)	78.50N	FENG H.	FENG H.	A 51/5, 394-397 (1990)	78.50E
Bolsé W.	Corts T.	A 51/6, 537-545 (1990)	61.80	Feudel T.	Posselt M.	A 51/1, 1-5 (1990)	61.70T
Bombach R.	Bombach R.	B 51/1, 59-60 (1990)	33.20F	Fickenscher M.	Fickenscher M.	B 51/3, 207-210 (1990)	42.55M
Borgmann D.	Witan K.	A 51/2, 132-136 (1990)	68.10J	Fink R.	Voigt J.	A 51/4, 317-321 (1990)	75.70
Bornemann T.	Bornemann T.	B 51/5, 307-313 (1990)	52.70	Fischer N.	Schuppler S.	A 51/4, 322-326 (1990)	73.20A
Böttcher W.	Choroba S.	B 51/6, 379-385 (1990)	42.55	Flytzanis Chr.	Roussignol Ph.	B 51/6, 437-442 (1990)	42.65
Bouchardy P.	Attal-Trétout B.	B 51/1, 17-24 (1990)	42.65D	Francesconi M.	Francesconi M.	B 51/1, 87-90 (1990)	32.90
Bower R.D.	Yang T.T.	B 51/6, 451-453 (1990)	33.50D				
Bradshaw A.M.	Tüshaus M.	A 51/2, 91-98 (1990)	68.35R	Gadkari S.C.	Muthe K.P.	A 51/1, 65-67 (1990)	74.90
Brechignac P.	Hung N.D.	B 51/1, 75-79 (1990)	42.60	Gadzuk J.W.	Gadzuk J.W.	A 51/2, 108-114 (1990)	68.35J
Brenig W.	Brenig W.	A 51/2, 115-120 (1990)	82.20F	Galarneau P.	Beauvais J.	A 51/6, 515-519 (1990)	42.30
Brijs G.	Norström H.	A 51/6, 459-466 (1990)	81.15	Galarneau P.	O'Neill C.	B 51/2, 116-120 (1990)	42.65K
Browne D.A.	Browne D.A.	A 51/3, 194-202 (1990)	68.35R	GAO J.	XIE C.	B 51/3, 215-218 (1990)	42.65J
Brumm T.	Ames F.	B 51/3, 200-206 (1990)	07.77	Gao Y.	Yamaga M.	B 51/5, 329-335 (1990)	42.70
Brunel M.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80	Garcia B.J.	Garcia B.J.	A 51/5, 437-445 (1990)	61.70T
Brunetaud J.M.	Wrobel R.	B 51/6, 458-464 (1990)	33.50	Gatava S.V.	Cartaleva St.St.	B 51/4, 292-294 (1990)	42.55
				Gerber T.	Bombach R.	B 51/1, 59-60 (1990)	33.20F
Cameron S.D.	Miragliotta J.	A 51/3, 221-225 (1990)	82.65M	Gianfrani L.	Francesconi M.	B 51/1, 87-90 (1990)	32.90
Cartaleva St.St.	Cartaleva St.St.	B 51/4, 292-294 (1990)	42.55	Gibis R.	Künzel H.	A 51/6, 508-514 (1990)	68.55
Carter J.C.	Murray D.C.	A 51/4, 337-339 (1990)	73.40Q	Gill P.	Rowley W.R.C.	B 51/6, 421-426 (1990)	42.50
Cefalas A.C.	Skordoulis C.	B 51/2, 141-145 (1990)	42.60D	Giuntini J.C.	Henn F.E.G.	A 51/6, 455-458 (1990)	05.60
Cerofolini G.F.	Cerofolini G.F.	A 51/6, 467-475 (1990)	06.00	Godefroy G.	Holtmann L.	A 51/1, 13-17 (1990)	61.70
Cervanin M.R.	Akitt D.	B 51/5, 326-328 (1990)	42.55D	Goncharov A.N.	Goncharov A.N.	B 51/2, 108-115 (1990)	07.60
Chakraborti A.	White J.D.	B 51/5, 371-373 (1990)	33.80B	Goodman D.W.	JIANG X.	A 51/2, 99-107 (1990)	82.65J
Chang R.K.	Acker W.P.	B 51/1, 9-16 (1990)	42.65	Gorelionok A.T.	Balynas V.	A 51/4, 357-360 (1990)	72.20
Chatterjee U.	Bhar G.C.	B 51/5, 317-319 (1990)	42.60H	Govorkov S.V.	Schröder T.	A 51/1, 49-51 (1990)	68.65
Chebotaev V.P.	Chebotaev V.P.	B 51/4, 303-306 (1990)	42.65	Gradmann U.	Elmers H.J.	A 51/3, 255-263 (1990)	75.30E
Chebotaev V.P.	Goncharov A.N.	B 51/2, 108-115 (1990)	07.60	Grande P.L.	Dymant F.	A 51/1, 29-33 (1990)	66.10C
CHEN C.	CHEN C.	A 51/5, 405-410 (1990)	68.55R	Greenhalgh D.A.	Porter F.M.	B 51/1, 31-38 (1990)	42.65
CHEN J.-T.	CHEN J.-T.	B 51/3, 222-226 (1990)	36.00	Gregory D.A.	Lu X.J.	B 51/2, 153-164 (1990)	42.30
Chiba T.	Akahane T.	A 51/2, 146-150 (1990)	07.77	Griessl M.	Eswein A.	A 51/5, 382-386 (1990)	61.40D
Chiwaki M.	Akahane T.	A 51/2, 146-150 (1990)	07.77	Grisch F.	Cottureau M.J.	B 51/1, 63-66 (1990)	33.00

Name	First Author	Applied Physics	PACS	Name	First Author	Applied Physics	PACS
Guerra J.M.	Pastor I.	B 51/5, 342-349 (1990)	42.55M	Krotkus A.	Balynas V.	A 51/4, 357-360 (1990)	72.20
Gundusharma U.M.	Gundusharma U.M.	A 51/1, 7-12 (1990)	66.30	Küchenhoff S.	Brenig W.	A 51/2, 115-120 (1990)	82.20F
Gupta M.K.	Muthe K.P.	A 51/1, 65-67 (1990)	74.90	Kühnle G.	Kühnle G.	B 51/1, 71-74 (1990)	42.60
Gupta P.K.	Sinha S.	B 51/4, 295-299 (1990)	42.60B	Künzel H.	Künzel H.	A 51/6, 508-514 (1990)	68.55
				Kurosui T.	Okano K.	A 51/4, 344-346 (1990)	68.55
				Kuz'menko V.A.	Laptev V.B.	B 51/6, 454-457 (1990)	82.50
Hadjichristov G.B.	Dinev S.G.	B 51/4, 263-266 (1990)	42.65				
Hähner G.	Hähner G.	A 51/3, 208-215 (1990)	68.35J	Landuyt J. van	Verwerft M.	A 51/4, 332-336 (1990)	61.14F
Hakim M.B.	Hakim M.B.	A 51/5, 369-373 (1990)	61.10	Lange B.	Lange B.	B 51/1, 53-58 (1990)	42.65D
Hall R.B.	Miragliotta J.	A 51/3, 221-225 (1990)	82.65M	Lange B.	Wenzel N.	B 51/1, 61-62 (1990)	42.65
Hammerich M.	Henningsen J.	B 51/4, 272-284 (1990)	42.55D	Lanig P.	Suttrop W.	A 51/3, 231-237 (1990)	71.55H
Harde P.	Künzel H.	A 51/6, 508-514 (1990)	68.55	Laptev V.B.	Laptev V.B.	B 51/6, 454-457 (1990)	82.50
Haug A.	Haug A.	A 51/4, 354-356 (1990)	79.20F	Lauberau A.	Fickenscher M.	B 51/3, 207-210 (1990)	42.55M
Hayden C.C.	Hayden C.C.	B 51/5, 350-357 (1990)	42.65J	Lebrecht A.	Esswein A.	A 51/5, 382-386 (1990)	61.40D
Hemmerling B.	Bombach R.	B 51/1, 59-60 (1990)	33.20F	Ledee J.J.	Wrobel R.	B 51/6, 458-464 (1990)	33.50
Henderson B.	Yamaga M.	B 51/2, 132-136 (1990)	42.70	Lee C.	Lee C.	A 51/4, 340-343 (1990)	81.40
Henderson B.	Yamaga M.	B 51/5, 329-335 (1990)	42.70	Lee C.H.	Lee C.H.	A 51/3, 191-193 (1990)	68.35R
Henn F.E.G.	Henn F.E.G.	A 51/6, 455-458 (1990)	05.60	Leiderer P.	Herminghaus S.	A 51/4, 350-353 (1990)	07.60
Henningsen J.	Henningsen J.	B 51/4, 272-284 (1990)	42.55D	Lempert W.	Miles R.	B 51/1, 1-7 (1990)	47.80V
Herminghaus S.	Herminghaus S.	A 51/4, 350-353 (1990)	07.60	Lessard R.A.	Beauvais J.	A 51/6, 515-519 (1990)	42.30
Hill S.C.	Acker W.P.	B 51/1, 9-16 (1990)	42.65	Li F.-b.	Li F.-b.	A 51/4, 327-331 (1990)	62.20
Hoheisel W.	Hoheisel W.	A 51/4, 271-180 (1990)	36.40	LI F.-b.	LI F.-b.	A 51/5, 398-404 (1990)	68.35F
Holtmann L.	Holtmann L.	A 51/1, 13-17 (1990)	61.70	LIAN Y.	XIE C.	B 51/3, 215-218 (1990)	42.65J
Holzschuh H.	Holzschuh H.	A 51/6, 486-490 (1990)	81.15G	Liang K.S.	Lee C.H.	A 51/3, 191-193 (1990)	68.35R
Hooker S.M.	Hooker S.M.	B 51/2, 127-131 (1990)	42.55H	Lieb K.P.	Corts T.	A 51/6, 537-545 (1990)	61.80
Horn K.	Horn K.	A 51/4, 289-304 (1990)	73.40L	Liedenbaum C.	Wichmann B.	B 51/5, 358-363 (1990)	33.00
Huang Y.K.	Costa A.F. da	B 51/3, 227-232 (1990)	42.60	Lim A.S.	Lim A.S.	A 51/5, 411-418 (1990)	68.45
Huber C.A.	Huber T.E.	A 51/2, 137-140 (1990)	82.65M	Lin M.C.	Dagata J.A.	B 51/6, 443-450 (1990)	82.50
Huber T.E.	Huber T.E.	A 51/2, 137-140 (1990)	82.65M	LU M.-h.	TSai J.-h.	B 51/6, 386-394 (1990)	42.60
Hubschmid W.	Bombach R.	B 51/1, 59-60 (1990)	33.20F	Lu X.J.	Lu X.J.	B 51/2, 153-164 (1990)	42.30
Hufnagel F.	Esswein A.	A 51/5, 382-386 (1990)	61.40D	Luckscheiter B.	Voigt J.	A 51/4, 317-321 (1990)	75.70
Huguenin D.	Menai A.	A 51/2, 141-145 (1990)	78.70B	Lüpke G.	Marowsky G.	B 51/1, 49-51 (1990)	42.65
Hung N.D.	Hung N.D.	B 51/1, 75-79 (1990)	42.60	Lüthy W.	Josten G.	B 51/6, 418-420 (1990)	42.80M
Hunziker H.E.	Meijer G.	B 51/6, 395-403 (1990)	35.80	Lysenko V.S.	Artamonov V.V.	A 51/5, 434-436 (1990)	78.30G
Ignaciuk M.	Konefal Z.	B 51/4, 285-291 (1990)	32.80W	MA L.S.	MA L.S.	B 51/3, 233-237 (1990)	07.56B
Iida M.	Okano K.	A 51/4, 344-346 (1990)	68.55	MA P.	MA P.	B 51/2, 103-107 (1990)	82.50
Ilyukhin A.A.	Ilyukhin A.A.	B 51/3, 192-196 (1990)	42.65	Maex K.	Norström H.	A 51/6, 459-466 (1990)	81.15
Inguscio M.	Francesconi M.	B 51/1, 87-90 (1990)	32.90	Magre P.	Attal-Trétout B.	B 51/1, 17-24 (1990)	42.65D
Itoh N.	Singh J.	A 51/5, 427-433 (1990)	72.90	Maier M.	Kanaan Y.	B 51/5, 336-341 (1990)	78.50N
Iwasaki T.	Okano K.	A 51/4, 344-346 (1990)	68.55	Marczewski M.	Strzalkowski I.	A 51/1, 19-22 (1990)	73.60H
Jäger K.	Ames F.	B 51/3, 200-206 (1990)	07.77	Marest G.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80
Janus H.W.	Musieliok J.	B 51/2, 165-170 (1990)	52.70	Marie J.J.	Cottureau M.J.	A 51/1, 63-66 (1990)	33.00
Janzen A.	Black J.E.	A 51/2, 121-125 (1990)	68.35R	Marinelli Marco	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
Jelenski W.	Musieliok J.	B 51/2, 165-170 (1990)	52.70	Marinelli Massimo	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
JIANG X.	JIANG X.	A 51/2, 99-107 (1990)	82.65J	Marowsky G.	Marowsky G.	B 51/1, 49-51 (1990)	42.65
Jones T.S.	Richardson N.V.	A 51/2, 126-131 (1990)	82.65Y	Marowsky G.	Ilyukhin A.A.	B 51/3, 192-196 (1990)	42.65
Joseph J.	Joseph J.	B 51/3, 219-221 (1990)	42.80	Marowsky G.	Wenzel N.	B 51/1, 61-62 (1990)	42.65
Josten G.	Josten G.	B 51/6, 418-420 (1990)	42.80M	Marinelli Massimo	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
Jouanne M.	Jouanne M.	A 51/4, 347-349 (1990)	68.65	Martinez J.	Garcia B.J.	A 51/5, 437-445 (1990)	61.70T
Julien C.	Jouanne M.	A 51/4, 347-349 (1990)	68.65	Massri A.R.	Dibble R.W.	B 51/1, 39-43 (1990)	33.35
Kanaan Y.	Kanaan Y.	B 51/5, 336-341 (1990)	78.50N	Massone C.A.	Costa A.F. da	B 51/3, 227-232 (1990)	42.60
Karelin A.	Danzhev V.	B 51/6, 465-468 (1990)	42.55H	McMichael I.	Saxena R.	A 51/4, 243-253 (1990)	42.50
Kasai H.	Brenig W.	A 51/2, 115-120 (1990)	82.20F	Meccozzi M.G.	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
Kasuya T.	Suzuki T.	B 51/5, 374-378 (1990)	32.80F	Meienburg W.	Meienburg W.	B 51/2, 94-98 (1990)	42.60B
Kato K.	Lee C.	A 51/4, 340-343 (1990)	81.40	Meier B.	Meier B.	B 51/6, 404-413 (1990)	42.65C
Ketterle W.	Arnold A.	B 51/2, 99-102 (1990)	82.40P	Meijer G.	Meijer G.	B 51/6, 395-403 (1990)	35.80
Ketterle W.	Ketterle W.	B 51/2, 91-93 (1990)	42.55G	Menai A.	Menai A.	A 51/2, 141-145 (1990)	78.70B
King T.A.	ZHANG J.-Y.	B 51/2, 121-126 (1990)	42.55H	Menzel D.	Menzel D.	A 51/3, 163-171 (1990)	79.20
Kirchner R.	Ames F.	B 51/3, 200-206 (1990)	07.77	Michailov N.I.	Michailov N.I.	B 51/2, 171-176 (1990)	42.60
Kirichenko N.	Kirichenko N.	A 51/6, 498-507 (1990)	42.50	Mikado T.	Akahane T.	A 51/2, 146-150 (1990)	07.77
Kita H.	Ohno Y.	A 51/1, 35-47 (1990)	68.10J	Miles R.	Miles R.	B 51/1, 1-7 (1990)	47.80V
Kiyota H.	Okano K.	A 51/4, 344-346 (1990)	68.55	Minutolo P.	Francesconi M.	B 51/1, 87-90 (1990)	32.90
Kleban P.	Browne D.A.	A 51/3, 194-202 (1990)	68.35R	Miragliotta J.	Miragliotta J.	A 51/3, 221-225 (1990)	82.65M
Kluge H.-J.	Ames F.	B 51/3, 200-206 (1990)	07.77	Mitrovic M.M.	Mitrovic M.M.	A 51/5, 374-378 (1990)	61.10
Knothe P.	Kögler R.	A 51/1, 53-59 (1990)	61.70T	Mohan S.	Rao G.M.	A 51/5, 423-426 (1990)	81.15C
Knystautas E.J.	Beauvais J.	A 51/6, 515-519 (1990)	42.30	Moncoffre N.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80
Koetter E.	Doyen G.	A 51/4, 281-288 (1990)	68.35	Moreh R.	Moreh R.	A 51/3, 203-207 (1990)	85.65
Kögler R.	Kögler R.	A 51/1, 53-59 (1990)	61.70T	Moser P.	Menai A.	A 51/2, 141-145 (1990)	78.70B
Kohn R.-D.	Weber A.	A 51/6, 520-525 (1990)	81.15G	Moya G.	Menai A.	A 51/2, 141-145 (1990)	78.70B
Konefal Z.	Konefal Z.	B 51/4, 285-291 (1990)	32.80W	Muresan L.	Deac I.	B 51/3, 211-214 (1990)	33.00
König W.	Scarnecio G.	A 51/3, 252-254 (1990)	68.65	Murray D.C.	Murray D.C.	A 51/4, 337-339 (1990)	73.40Q
Kornas V.	Bornemann T.	B 51/5, 307-313 (1990)	52.70	Murtas F.	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
Kowalski M.	Strzalkowski I.	A 51/1, 19-22 (1990)	73.60H	Musieliok J.	Musieliok J.	B 51/2, 165-170 (1990)	52.70
Krätzig E.	Holtmann L.	A 51/1, 13-17 (1990)	61.70	Muthe K.P.	Muthe K.P.	A 51/1, 65-67 (1990)	74.90
Krätzig E.	Rupp R.A.	B 51/5, 364-370 (1990)	42.40				
Krausch G.	Voigt J.	A 51/4, 317-321 (1990)	75.70	Nahme H.	Nahme H.	B 51/3, 177-191 (1990)	42.55F
Kreuzer H.J.	Kreuzer H.J.	A 51/3, 183-190 (1990)	82.63D	Nakamura T.	Ohno Y.	A 51/1, 35-47 (1990)	68.10J
Kreuzer H.J.	Kreuzer H.J.	A 51/6, 491-497 (1990)	68.10M	Nakamura T.	Okano K.	A 51/4, 344-346 (1990)	68.55
Krischer K.	Eiswirth R.M.	A 51/2, 79-90 (1990)	68.10I	Nakamura Y.	Okano K.	A 51/4, 344-346 (1990)	68.55
Kröll S.	Kröll S.	B 51/1, 25-30 (1990)	42.65D	Namba S.	Lee C.	A 51/4, 340-343 (1990)	81.40
				Namba S.	Sanda H.	A 51/2, 151-154 (1990)	81.40

Name	First Author	Applied Physics	PACS	Name	First Author	Applied Physics	PACS
Nassisi V.	Nassisi V.	B 51/4, 254-257 (1990)	42.55	Schröder T.	Schröder T.	A 51/1, 49-51 (1990)	68.65
Nazarov A.N.	Artamonov V.V.	A 51/5, 434-436 (1990)	78.30G	Schubert M.	Schubert M.	B 51/6, 414-417 (1990)	32.70J
Neckel H.	Meinburg W.	B 51/2, 94-98 (1990)	42.60B	Schudel D.	Dyer P.E.	B 51/5, 314-316 (1990)	82.50
Neubecker R.	Neubecker R.	B 51/4, 258-262 (1990)	42.65	Schulte U.	Hoheisel W.	A 51/4, 271-180 (1990)	36.40
Niay P.	Wobel R.	B 51/6, 458-464 (1990)	33.50	Schulz v.d.Gathen	Bornemann T.	B 51/5, 307-313 (1990)	52.70
Nikumb S.K.	Akitt D.	B 51/5, 326-328 (1990)	42.55D	Schumann H.	Weber A.	A 51/6, 520-525 (1990)	81.15G
Nilsson D.	Kröll S.	B 51/1, 25-30 (1990)	42.65D	Schuppler S.	Schuppler S.	A 51/4, 322-326 (1990)	73.20A
Norström H.	Norström H.	A 51/6, 459-466 (1990)	81.15	Schwabl F.	Prusseit-Elffroth	A 51/5, 361-368 (1990)	78.30
				Schwentner N.	Nahme H.	B 51/3, 177-191 (1990)	42.55F
O'Donnell K.P.	Yamaga M.	B 51/2, 132-136 (1990)	42.70	Scudieri F.	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
O'Donnell K.P.	Yamaga M.	B 51/5, 329-335 (1990)	42.70	Scully M.O.	Scully M.O.	B 51/3, 238-241 (1990)	42.60
O'Neill C.	O'Neill C.	B 51/2, 116-120 (1990)	42.65K	Secco E.A.	Gundusharma U.M.	A 51/1, 7-12 (1990)	66.30
Oelhafen P.	Ugolini D.	A 51/6, 526-536 (1990)	73.60H	Seguin H.J.J.	Akitt D.	B 51/5, 326-328 (1990)	42.55D
Ogawa T.	Ogawa T.	B 51/6, 431-436 (1990)	42.60F	Sekine T.	Jouanne M.	A 51/4, 347-349 (1990)	68.65
Ohno Y.	Ohno Y.	A 51/1, 35-47 (1990)	68.10J	Semibalamut V.M.	Bezrodny A.E.	B 51/3, 197-199 (1990)	07.00
Okano K.	Okano K.	A 51/4, 344-346 (1990)	68.55	Sereda O.	Derzhiev V.	B 51/6, 465-468 (1990)	42.55H
Olafsson A.	Henningsen J.	B 51/4, 272-284 (1990)	42.55D	Serpengüzel A.	Acker W.P.	B 51/1, 9-16 (1990)	42.65
Oldershaw G.A.	Dyer P.E.	B 51/5, 314-316 (1990)	82.50	Shafeev G.A.	Shafeev G.A.	A 51/2, 160-162 (1990)	44.30
Ospowicz T.	Corts T.	A 51/6, 537-545 (1990)	61.80	Sheu E.Y.	Lee C.H.	A 51/3, 191-193 (1990)	68.35R
Otto G.	Kögler R.	A 51/1, 53-59 (1990)	61.70T	Shiotani N.	Akahane T.	A 51/2, 146-150 (1990)	07.77
				Shirley J.A.	Shirley J.A.	B 51/1, 45-48 (1990)	33.20F
Panchapagesan T.S.	Rao G.M.	A 51/5, 423-426 (1990)	81.15C	Shmidt N.M.	Balynas V.	A 51/4, 357-360 (1990)	72.20
Passenberg W.	Künzel H.	A 51/6, 508-514 (1990)	68.55	Shumay I.L.	Schröder T.	A 51/1, 49-51 (1990)	68.65
Pastor I.	Pastor I.	B 51/5, 342-349 (1990)	42.55M	Siemers I.	Schubert M.	B 51/6, 414-417 (1990)	32.70J
Pavlovskaya A.	Pavlovskaya A.	A 51/3, 171-182 (1990)	68.35B	Silipas D.	Deac I.	B 51/3, 211-214 (1990)	33.00
Pélat M.	Attal-Trétout B.	B 51/1, 17-24 (1990)	42.65D	Singh J.	Singh J.	A 51/5, 427-433 (1990)	72.90
PENG K.	XIE C.	B 51/3, 215-218 (1990)	42.65J	Singh K.	Joseph J.	B 51/3, 219-221 (1990)	42.80
Pensl G.	Suttrop W.	A 51/3, 231-237 (1990)	71.55H	Sinha S.	Sinha S.	B 51/4, 295-299 (1990)	42.60B
Penzkofer A.	Meier B.	B 51/6, 404-413 (1990)	42.65C	Sinha S.K.	Muthe K.P.	A 51/1, 65-67 (1990)	74.90
Perrone M.R.	Nassisi V.	B 51/4, 254-257 (1990)	42.55	Skordoulis C.	Skordoulis C.	B 51/2, 141-145 (1990)	42.60D
Persson B.	Tüshaus M.	A 51/2, 91-98 (1990)	68.35R	Skvortsov M.N.	Goncharov A.N.	B 51/2, 108-115 (1990)	07.60
Pichler G.	Azinovitch D.	B 51/6, 427-430 (1990)	33.80K	Sladky P.	Dienstbier M.	B 51/2, 137-140 (1990)	06.00
Piglmayer K.	Kirichenko N.	A 51/6, 498-507 (1990)	42.50	Smirnov V.V.	Ilyukhin A.A.	B 51/3, 192-196 (1990)	42.65
Pillai P.K.C.	Joseph J.	B 51/3, 219-221 (1990)	42.80	Smith U.	Norström H.	A 51/6, 459-466 (1990)	81.15
Piqueras J.	Garcia B.J.	A 51/5, 437-445 (1990)	61.70T	Sommerfeldt R.	Rupp R.A.	B 51/5, 364-370 (1990)	42.40
Pizzoferrato R.	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H	Spyrou S.	Skordoulis C.	B 51/2, 141-145 (1990)	42.60D
Platzer R.	Voigt J.	A 51/4, 317-321 (1990)	75.70	Staltonis A.	Balynas V.	A 51/4, 357-360 (1990)	72.20
Ploog K.	Scamarcio G.	A 51/3, 252-254 (1990)	68.65	Starnes S.H.	Dibble R.W.	B 51/1, 39-43 (1990)	33.35
Polizotti R.S.	Miragliotta J.	A 51/3, 221-225 (1990)	82.65M	Stefanova M.	Derzhiev V.	B 51/6, 465-468 (1990)	42.55H
Porter F.M.	Porter F.M.	B 51/1, 31-38 (1990)	42.65	Steinmann W.	Schuppler S.	A 51/4, 322-326 (1990)	73.20A
Posselt M.	Posselt M.	A 51/1, 1-5 (1990)	61.70T	Stopford P.J.	Porter F.M.	B 51/1, 31-38 (1990)	42.65
Pouzet J.	Bernede J.C.	A 51/2, 155-159 (1990)	68.55	Strelchuk V.V.	Artamonov V.V.	A 51/3, 264-267 (1990)	78.30G
Powell A.V.	Powell A.V.	A 51/3, 226-230 (1990)	61.12	Strelchuk V.V.	Artamonov V.V.	A 51/5, 434-436 (1990)	78.30G
Prusseit-Elffroth	Prusseit-Elffroth	A 51/5, 361-368 (1990)	78.30	Strzalkowski I.	Strzalkowski I.	A 51/1, 19-22 (1990)	73.60H
Purucker H.-G.	Fickenscher M.	B 51/3, 207-210 (1990)	42.55M	Suesse K.-E.	Suesse K.-E.	B 51/4, 267-271 (1990)	42.55M
Pykhov R.L.	Ilyukhin A.A.	B 51/3, 192-196 (1990)	42.65	Suesse K.-E.	Schmidt V.	B 51/5, 320-325 (1990)	42.55M
				SUGITA K.	MA P.	B 51/2, 103-107 (1990)	82.50
Rabinowitz P.	Miragliotta J.	A 51/3, 221-225 (1990)	82.65M	Sugiyama K.	Sugiyama K.	B 51/2, 146-152 (1990)	41.70
Ramos S.M.M.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80	Namba S.	Sanda H.	A 51/2, 151-154 (1990)	81.40
Rao G.M.	Rao G.M.	A 51/5, 423-426 (1990)	81.15C	Suhr H.	Holzschuh H.	A 51/6, 486-490 (1990)	81.15G
Rasheed F.	Yamaga M.	B 51/5, 329-335 (1990)	42.70	Suhr H.	Weber A.	A 51/6, 520-525 (1990)	81.15G
Reid J.	White J.D.	B 51/5, 371-373 (1990)	33.80B	Suri B.M.	Ames F.	B 51/3, 200-206 (1990)	07.77
Rejfir P.	Dienstbier M.	B 51/2, 137-140 (1990)	06.00	Suttrop W.	Suttrop W.	A 51/3, 231-237 (1990)	71.55H
Reuss J.	Wichmann B.	B 51/5, 358-363 (1990)	33.00	Suzuki R.	Akahane T.	A 51/2, 146-150 (1990)	07.77
Ricard D.	Roussignol Ph.	B 51/6, 437-442 (1990)	42.65	Suzuki T.	Suzuki T.	B 51/5, 374-378 (1990)	32.80F
Richardson N.V.	Richardson N.V.	A 51/2, 126-131 (1990)	82.65Y	Svorcik V.	Svorcik V.	A 51/1, 61-63 (1990)	81.60
Rimke H.	Ames F.	B 51/3, 200-206 (1990)	07.77	Szatmari S.	Kühnle G.	B 51/1, 71-74 (1990)	42.60
Ringhofer K.H.	Rupp R.A.	B 51/5, 364-370 (1990)	42.40				
Ristić R.I.	Mitrovitch M.M.	A 51/5, 374-378 (1990)	61.10	Taglauer E.	Taglauer E.	A 51/3, 238-251 (1990)	79.20
Romanyuk B.N.	Artamonov V.V.	A 51/3, 264-267 (1990)	78.30G	Takai M.	Lee C.	A 51/4, 340-343 (1990)	81.40
Roussignol Ph.	Roussignol Ph.	B 51/6, 437-442 (1990)	42.65	Takai M.	Sanda H.	A 51/2, 151-154 (1990)	81.40
Rowley W.R.C.	Rowley W.R.C.	B 51/6, 421-426 (1990)	42.50	Tanigawa S.	Akahane T.	A 51/2, 146-150 (1990)	07.77
Rudolph W.	Schröder T.	A 51/1, 49-51 (1990)	68.65	Tapfer L.	Scamarcio G.	A 51/3, 252-254 (1990)	68.65
Rudskoy I.V.	Artamonov V.V.	A 51/3, 264-267 (1990)	78.30G	Taran J.P.	Attal-Trétout B.	B 51/1, 17-24 (1990)	42.65D
Rupp R.A.	Rupp R.A.	B 51/5, 364-370 (1990)	42.40	Tellefsen J.A.	Balynas V.	A 51/4, 357-360 (1990)	72.20
Ryabov E.A.	Laptev V.B.	B 51/6, 454-457 (1990)	82.50	Tendeloo G. van	Verwerf M.	A 51/4, 332-336 (1990)	61.14F
Rybka V.	Svorcik V.	A 51/1, 61-63 (1990)	81.60	Teubner U.	Kühnle G.	B 51/1, 71-74 (1990)	42.60
				Thanigaimani V.	Angadi M.A.	A 51/5, 446-450 (1990)	78.65
Sabharwal S.C.	Muthe K.P.	A 51/1, 65-67 (1990)	74.90	Thäter G.	Posselt M.	A 51/1, 1-5 (1990)	61.70T
Sanda H.	Sanda H.	A 51/2, 151-154 (1990)	81.40	Thevuthasan S.	Thevuthasan S.	A 51/3, 216-220 (1990)	68.35R
Santić B.	Desnica U.V.	A 51/5, 379-381 (1990)	71.55E	Tino G.M.	Francesconi M.	B 51/1, 87-90 (1990)	32.90
Sasso A.	Francesconi M.	B 51/1, 87-90 (1990)	32.90	Titov E.A.	Bezrodny A.E.	B 51/3, 197-199 (1990)	07.00
Savino E.	Dymont F.	A 51/1, 29-33 (1990)	66.10C	Toennies J.P.	Hähner G.	A 51/3, 208-215 (1990)	68.35J
Saxena R.	Saxena R.	B 51/4, 243-253 (1990)	42.50	Tomimatsu T.	Akahane T.	A 51/2, 146-150 (1990)	07.77
Scamarcio G.	Scamarcio G.	A 51/3, 252-254 (1990)	68.65	Tomov I.V.	Michailov N.I.	B 51/2, 171-176 (1990)	42.60
Schaefer J.A.	Schaefer J.A.	A 51/4, 305-316 (1990)	81.40	Tosa V.	Deac I.	B 51/3, 211-214 (1990)	33.00
Schäfer M.	Ketterle W.	B 51/2, 91-93 (1990)	42.55G	Tousset J.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80
Schatz G.	Voigt J.	A 51/4, 317-321 (1990)	75.70	Träger F.	Hoheisel W.	A 51/4, 271-180 (1990)	36.40
Scheffler M.	Doyen G.	A 51/4, 281-288 (1990)	68.35	Traubmann N.	Ames F.	B 51/3, 200-206 (1990)	07.77
Schelf S.	Ugolini D.	A 51/6, 526-536 (1990)	73.60H	Trebino R.	Hayden C.C.	B 51/5, 350-357 (1990)	42.65J
Schmidt V.	Schmidt V.	A 51/5, 320-325 (1990)	42.55M	TSAl J.-h.	TSAl J.-h.	B 51/6, 386-394 (1990)	42.60
Schreier K.	Esswein A.	A 51/5, 382-386 (1990)	61.40D	Tschudi T.	Neubecker R.	B 51/4, 258-262 (1990)	42.65

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TSONG T.T.	CHEN C.	A 51/5, 405-410 (1990)	68.55R	Wieser E.	Kögler R.	A 51/1, 53-59 (1990)	61.70T
Tsui K.H.	Costa A.F. da	B 51/3, 227-232 (1990)	42.60	Williams D.R.	Porter F.M.	B 51/1, 31-38 (1990)	42.65
Tuilier M.-H.	Ugolini D.	A 51/6, 526-536 (1990)	73.60H	Wisłowski J.	Strzałkowski I.	A 51/1, 19-22 (1990)	73.60H
Tunamova L.M.	Laptev V.B.	B 51/6, 454-457 (1990)	82.50	Witan K.	Witan K.	A 51/2, 132-136 (1990)	68.10J
Tüshaus M.	Tshaus M.	A 51/2, 91-98 (1990)	68.35R	Wittmer M.	Wittmer M.	A 51/6, 451-454 (1990)	73.30
Ugolini D.	Ugolini D.	A 51/6, 526-536 (1990)	73.60H	Wöhrmann U.	Voigt J.	A 51/4, 317-321 (1990)	75.70
Unertl W.N.	Lee C.H.	A 51/3, 191-193 (1990)	68.35R	Wolfrum J.	Arnold A.	B 51/2, 99-102 (1990)	82.40P
Unertl W.N.	Thevuthasan S.	A 51/3, 216-220 (1990)	68.35R	Wolfrum J.	Lange B.	B 51/1, 53-58 (1990)	42.65D
Unland M.	Holtmann L.	A 51/1, 13-17 (1990)	61.70	Wolfrum J.	Meienburg W.	B 51/2, 94-98 (1990)	42.60B
Valakh M.Y.	Artamonov V.V.	A 51/3, 264-267 (1990)	78.30G	Wöll Ch.	Hähner G.	A 51/3, 208-215 (1990)	68.35J
Valakh M.Y.	Artamonov V.V.	A 51/5, 434-436 (1990)	78.30G	Woodgate B.E.	Hakim M.B.	A 51/5, 369-373 (1990)	61.10
Vandervorst W.	Norström H.	A 51/6, 459-466 (1990)	81.15	Wrobel R.	Wrobel R.	B 51/6, 458-464 (1990)	33.50
Vanhellemont J.	Norström H.	A 51/6, 459-466 (1990)	81.15	XIE C.	XIE C.	B 51/3, 215-218 (1990)	42.65J
Verwerft M.	Verwerft M.	A 51/4, 332-336 (1990)	61.14F	Yada T.	Lee C.	A 51/4, 340-343 (1990)	81.40
Vigneron J.P.	Doyen G.	A 51/4, 281-288 (1990)	68.35	Yakovlenko S.	Derzhiev V.	B 51/6, 465-468 (1990)	42.55H
Villa E.	Dagata J.A.	B 51/6, 443-450 (1990)	82.50	Yamaga M.	Yamaga M.	B 51/2, 132-136 (1990)	42.70
Voigt J.	Voigt J.	A 51/4, 317-321 (1990)	75.70	Yamaga M.	Yamaga M.	B 51/5, 329-335 (1990)	42.70
Vollmer M.	Hoheisel W.	A 51/4, 271-180 (1990)	36.40	Yamazaki T.	Akahane T.	A 51/2, 146-150 (1990)	07.77
Voronov V.V.	Shafeev G.A.	A 51/2, 160-162 (1990)	44.30	Yang T.T.	Yang T.T.	B 51/6, 451-453 (1990)	33.50D
Vries M.S. de,	Meijer G.	B 51/6, 395-403 (1990)	35.80	YANG X.	XIE C.	B 51/3, 215-218 (1990)	42.65J
WANG Hong	FENG H.	A 51/5, 394-397 (1990)	78.50E	Yeh P.	Saxena R.	B 51/4, 243-253 (1990)	42.50
WANG Huafa	FENG H.	A 51/5, 394-397 (1990)	78.50E	Yoda J.	Sugiyama K.	B 51/2, 146-152 (1990)	41.70
Wang J.Q.	Ugolini D.	A 51/6, 526-536 (1990)	73.60H	Yu B.	Browne D.A.	A 51/3, 194-202 (1990)	68.35R
Webb C.E.	Hooker S.M.	B 51/2, 127-131 (1990)	42.55H	Yu F.T.S.	Lu X.J.	B 51/2, 153-164 (1990)	42.30
Weber A.	Weber A.	A 51/6, 520-525 (1990)	81.15G	YU Z.-X.	CHEN J.-T.	B 51/3, 222-226 (1990)	36.00
Weber H.P.	Josten G.	B 51/6, 418-420 (1990)	42.80M	Yue G.	Yamaga M.	B 51/2, 132-136 (1990)	42.70
Wedler G.	Witan K.	A 51/2, 132-136 (1990)	68.10J	Zammit U.	Marinelli Massimo	A 51/5, 387-393 (1990)	78.20H
Weidner F.	Suesse K.-E.	B 51/4, 267-271 (1990)	42.55M	Zanchetta J.V.	Henn F.E.G.	A 51/6, 455-458 (1990)	05.60
Weidner F.	Schmidt V.	B 51/5, 320-325 (1990)	42.55M	Zawislak F.C.	Dymont F.	A 51/1, 29-33 (1990)	66.10C
Weidner P.	Meier B.	B 51/6, 404-413 (1990)	42.65C	Zawislak F.C.	Ramos S.M.M.	A 51/6, 476-480 (1990)	76.80
WEN J.	FENG H.	A 51/5, 394-397 (1990)	78.50E	ZHANG J.-Y.	ZHANG J.-Y.	B 51/2, 121-126 (1990)	42.55H
Wendt H.R.	Meijer G.	B 51/6, 395-403 (1990)	35.80	Zhang J.	Kreuzer H.J.	A 51/3, 183-190 (1990)	82.63D
Wenzel N.	Wenzel N.	B 51/1, 61-62 (1990)	42.65	Zhu Z.	Al Dhahir R.K.	B 51/1, 81-85 (1990)	87.00
White J.D.	White J.D.	B 51/5, 371-373 (1990)	33.80B	Zizak G.	Zizak G.	B 51/1, 67-70 (1990)	07.65
Wichmann B.	Wichmann B.	B 51/5, 358-363 (1990)	33.00				

